

## Janeen Adrion Kochan, Ph.D.

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### Education

- Ph.D. December 2005, University of Central Florida, Orlando Florida  
Applied Experimental and Human Factors Psychology  
Dissertation “The role of domain expertise and judgment in dealing with unexpected events”
- M.S. September 1994, The Ohio State University, Columbus, Ohio  
Industrial and Systems Engineering, Human Factors  
Masters Thesis “A new approach to aeronautical decision making: The expertise method”
- B.A. March 1974, The Ohio State University, Columbus, Ohio  
Psychology, Pre-Medicine, Minor in Political Science
- High School June 1971, Whetstone High School, Columbus, Ohio

### Professional Experience

- 07/1982 – Present **Adrion Advisors, Inc. (dba Aviation Research, Training, and Services, Inc.)**, Winter Haven, FL  
President, Human Factors Researcher, Instructor, Designated Pilot Examiner
- Contract research scientist for NASA Ames; projects include NextGen, Emergencies and Non-normals, checklist design, human factors analyses
  - Consultant to Polk State College in development of Associate of Science and Bachelor of Science Aerospace programs
  - Provide contract human factors research, training program development, and pilot services under contract throughout the world
  - Administer FAA Flight Tests through Airline Transport Pilot and Flight Instructor Certificates as an FAA Designated Pilot Examiner
  - Expert witness for human factors, human performance, and error management in aviation, medicine, and workplaces
  - Provide proposal, research, reporting, and evaluation services
    - Provide contract human factors research and pilot services
  - Contractor to FAA, U.S. Air Force, and other government and private agencies
    - *Personality Factors Contributing to Pilot Accidents and Pilots Errors* (Federal Aviation Administration and The Cleveland Clinic)
    - *The Development of Workload Measurement Devices and Techniques for Aircraft Cockpits* (Federal Aviation Administration and RJO Enterprises)
    - *Pilot Judgment Skills Test Battery* (The Clinical Sciences Division, USAF School of Aerospace Medicine, Brooks Air Force Base, TX)
    - *Ab Initio Automation Training for Undergraduate Pilot Training* (University of North Dakota and US Airways Express)
  - Produced interactive training DVD on Aeronautical Decision Making for the FAA Safer Skies initiative
  - Fly as corporate pilot for Goose Aviation in Grumman Goose (G-21A) primarily to islands in the Caribbean
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- 05/2007 – 05/2009      **Goose Aviation (BPJ Holding Corporation)**, Princeton, NJ  
Corporate pilot and mechanic on Grumman Goose (G-21A)
- 08/2001 – 01/2007      **University of Central Florida, Team Performance Laboratory**, Orlando, FL  
Human Factors Researcher
- Conducted literature review and simulator experiment on pilots' perceptions and reactions to unexpected events (FAA Research Grants)
  - Reviewed and analyzed NTSB and FAA accident and incident databases in crew decision making research project
  - Assisted in data collection for Transportation Security Administration baggage screener research (Transportation Security Administration Research Grant)
  - Contributed pilot related SME resources for laboratory projects
  - Research duties and human factors assessment of the Notice to Airmen (NOTAM) system (FAA Research Grant)
  - Generated scenarios and concept mapping for knowledge structure assessment in aviation automation (FAA Research Grant on Automation)
  - Generated scenarios for Crew Resource Management (CRM) in the new environment Line Oriented Flight Training (LOFT)
  - Contributed to literature review and book chapter on automation as team members
- 01/1988 – 04/2005      **ABX Air, Inc (formerly Airborne Express)**, Wilmington, OH  
Line Captain, Human Factors Coordinator, CRM Instructor
- Line Captain on Boeing-767; formerly Captain on DC-8, DC-9, and YS-11
  - Developed, maintained, and taught Human Factors and Crew Resource Management program for major U.S. Air Carrier
  - Initiated "Training in Lieu" program including instructor training and standardization
  - Provided recurrent CRM courseware, instructor manuals, and new, relevant LOFT scenarios yearly with a focus on stress, fatigue and human performance
  - Created and conducted longitudinal study on company organizational culture and safety culture; provided possible interventions; evaluated the effects of intervention strategies
  - Interfaced with the professional human factors community
- 01/1983 – 09/1997      **American Medical Association**, Chicago, IL  
Program Director
- Developed and presented medical practice management training courses on technical and human factors topics throughout the United States
  - Program topics included Insurance Coding and Processing, Risk Management in Medicine, Developing the Medical Team (hiring strategies, EEOC compliance, training issues), Joining and Maintaining a Medical Group, Policies and Procedures Handbook for the Medical Office, Responding to the Changing Medical Environment (the implementation of managed care), and Retirement Strategies
  - Provided consultation services to private medical offices and hospital teams
- 01/1984 – 07/1987      **Ohio State University**, Columbus, OH  
Graduate Research Associate, Graduate Teaching Associate
- Taught college level aviation courses (AV 413, Commercial Pilot Fundamentals)
  - Completed funded studies on aeronautical decision making, pilot workload, pilot expertise, training strategies, and fatigue for the FAA, AOPA, US Air Force, NASA and private agencies
  - Co-authored pilot judgment training manuals for the FAA
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**Academic Appointments**

- 2012 – Present Polk State College, Aerospace Program – Curriculum Developer, Adjunct Professor
- 2011 – Present Embry-Riddle Aeronautical University – Worldwide; Adjunct Assistant Professor teaching Graduate Research Methods in Aviation/Aerospace; Capstone; Human Factors, Crew Resource Management and other Graduate courses
- 2010 – Present Drexel University School of Biomedical Engineering, Science and Health Systems; Visiting Research Professor and an Aviation Expert in Residence; Dissertation Committee Member
- 2008 – Present University of Central Florida, College of Medicine, Courtesy Instructor of Medical Education

**Teaching Experience**

- 2013 – Present **Polk State College**– Teaching aerospace classes (face-to-face) including Aviation Weather, Automation Management, Safety Management Systems, Operational Risk Management, Human Factors, and Crew Resource Management
- 2012 – Present **Embry-Riddle Aeronautical University Graduate Program - Worldwide** – Teaching (face-to-face) graduate level Research Methods, Human Factors, and Capstone advisor
- 1984 – Present **Federal Aviation Administration** – Teaching human factors and technical aviation courses to audiences throughout the United States
- 1988 – 2005 **Airborne Express** – Human factors instructor, teaching ½ day to two-day courses to line pilots, dispatchers, instructor pilots, and management
- 1983 – 1997 **American Medical Association** – Taught physicians and medical staff one to four day courses on human factors topics throughout the United States
- 1984 – 1987 **Ohio State University** – Taught college undergraduate aviation program courses to college students (Commercial Pilot Fundamentals)

**Thesis and Dissertation Committee Participation**

- 2013 – Embry Riddle Aeronautical University, Felix Xavier, The impact of NextGen capabilities and technologies on airport performance
- 2012 – Embry Riddle Aeronautical University, Luis Badia, Effects of loss of radio communications on pilot performance
- 2012 – Drexel University, Theodoros Katerinakis, Flight in the basic model of communication: Cockpit acts of conversation, trust, and crisis interaction
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**Certificates And Licenses****US FAA Medical Certificate:** First Class – Issued 01/07/2014**Restricted Radiotelephone Operator Permit:** 07/20/84**US FAA Airman Certificate:** Airline Transport Pilot**Ratings and Limitations:** Airplane Single & Multiengine Land, B-767, B-757, DC-8, DC-9, YS-11, G-1159, N-265, G-159, CE500, CB-LB30**Commercial Privileges:** Airplane Single and Multiengine Sea, Glider**US FAA Flight Instructor Certificates:** **Gold Seal Flight Instructor:** Airplane Single and Multiengine, Instrument Airplane**Ground Instructor:** Advanced, Instrument**FAA Pilot Examiner Designation:** Private Pilot Examiner, Commercial Pilot and Instrument Rating Examiner, Airline Transport Pilot Examiner, Pilot Type Rating CE-500 (Cessna Citation) Examiner, Certified Flight Instructor Initial and Certified Flight Instructor Additional Ratings; Seaplane; Sport Pilot, Foreign Pilot Examiner, Military Competency Examiner, Ground Instructor Examiner.**FAA Mechanic Certificates:** Airframe and Powerplant Mechanic Inspector Authorization (Current)**Pilot Flight Times**

Total Time	18,127
Multi-engine Land	9,383
Single Engine Land	4,292
Single Engine Sea	272
Multi-engine Sea	187
Turbine	7,556
Tailwheel	1,479
Instrument	2,137
Night	7,787
Pilot-in-Command	13,370
Second-in-Command	4,182
Flight Instruction Given	3,727
Flight Tests Given	2,267

**Volunteer Pilot:** Collings Foundation Wings of Freedom Tour Consolidated B-24, Boeing B-17**FAA Written Examinations:** Flight Engineer Basic, Flight Engineer Turbojet

JAA (EASA) ATPL expected 05/2014

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### **Editorial Boards, Participation, and Awards**

- 2013 – Present International Pilot Training Consortium (IPTC) Work Group Chair
- 2012 – Present US Aviation Rulemaking Advisory Committee – Airman Testing Standards and Training Working Group Member
- 2012 – Present International Association of Flight Training Professionals; Advisory Committee
- 2012 – Present Aerospace Medical Association; Associate Fellow
- 2011 – Present Fellow of the Royal Aeronautical Society (FRAeS)
- 2010 – Present Royal Aeronautical Society International Committee for Aviation Training in Extended Envelopes (ICATEE); Member and Contributor
- 2005 – Present Reviewer for 7 Technical Groups of the Human Factors and Ergonomics Society
- 2009 – Present International Journal of Aviation Psychology; Editorial Board
- 2009 – Present Aircraft Owners and Pilots Association (AOPA) Airport Support Network; Committee Member
- 2009 – Present Winter Haven Municipal Airport Safety Committee; Advisor
- 2005 – 2013 Professional Aviation Board of Certification (PABC); Board of Directors
- 2007 Session Chair: *13<sup>th</sup> International Symposium on Aviation Psychology*, Dayton, OH
- 2003 Session Chair: *12<sup>th</sup> International Symposium on Aviation Psychology*, Dayton, OH
- 2001 Invited Banquet Speaker: *11<sup>th</sup> International Symposium on Aviation Psychology*, Ohio State University, Columbus, OH
- 2000 FAA Flight Instructor of the Year – The Orlando Flight Standards District Office, Orlando, FL
- 1985 Technical Chair – *Third International Symposium on Aviation Psychology*, Ohio State University, Columbus, OH

### **Publications, Presentations, and Research Reports (Partial Listing)**

#### **Book Chapters**

- Hoeft, R. M., Kochan, J. A., & Jentsch, F. (2005), in Bowers, C. A. (Ed). Automated systems in the cockpit: Is “George” a team member? *High-Tech Teams*. Washington, D.C.: American Psychological Association.

#### **Journal Publications**

- Ransbury, P. (B. J.) & Kochan, J.A. (2011) Pilot project: Evolving guidelines aim to correct deficiencies in methods of training for airplane upset prevention and recovery. *Aero Safety World*, Flight Safety Foundation, October 2011.

Kochan, J. A. (in preparation). *In search of the expert pilot; a research odyssey in human factors*.

Kochan, J. A., (in preparation). *The effects of preflight information on pilots’ reactions to unexpected events*.

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Hoefl, R. M., Kochan, J. A., & Jentsch, F. (2005). A human factors analysis of the current Notices to Airmen (NOTAM) system. *The International Journal of Aviation Psychology* (15)1, 91-109.

Hoefl, R. M., Kochan, J. A., & Jentsch, F. (2004). Freeing NOTAMs from teletype technology. *Flight Safety Digest*, 23(4), 1-35.

### **Professional Proceedings**

Kochan, J. A. (2010). Harmonizing flight training methodologies. *Proceedings of the Flight Safety Foundation's 63<sup>rd</sup> International Air Safety Seminar*. Milan, Italy.

Kochan, J. A. (2008). Book review of human factors issues in handgun safety and forensics. *Ergonomics in Design*, 16(4), 30.

Kochan, J. A. (2006). Intended and unintended benefits of advanced maneuvering and upset recovery training. *Proceedings of the 51<sup>st</sup> Annual Flight Safety Foundation Corporate Aviation Safety Seminar*. Orlando, Florida.

Kochan, J. A., & Priest, J. E. (2006). Human factors aspects of unexpected events as precursors to unwanted outcomes. *Proceedings of the 18<sup>th</sup> Annual Flight Safety Foundation European Aviation Safety Seminar*. Athens, Greece.

Hilscher, M. Kochan, J. A., Breiter, E. G., & Weiss, C. (2006). Affectively-indexing safety for specialized flight training. *Proceedings of the Multimodal Symposium on Safety Management and Human Factors*. Melbourne, Australia.

Hilscher, M. & Kochan, J. A. (2005). From the couch to the cockpit: The application of psychological practices to upset recovery training. *Proceedings of The Third Annual Meeting of The Society for Human Performance in Extreme Environments*. Orlando, FL.

Kochan, J. A., Priest, J. E., Breiter, E. G., & Hilscher, M. (2005) Pilots' perceptions and retention of in-flight upset recovery training: Evidence for review and practice. *Proceedings of the 49<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society*.

Kochan, J. A., & Priest, J. E. (2005). Program update and prospects for in-flight simulation upset recovery training. *Proceedings of the 13th International Symposium on Aviation Psychology*. Oklahoma City: Wright State University.

Kochan, J. A., Breiter, E. G., & Jentsch, F. (2005). Surprise and unexpectedness in flying: Factors and features. *Proceedings of the 13th International Symposium on Aviation Psychology*. Oklahoma City: Wright State University.

Kochan, J. A., Priest, J. E., & Moskal, M. (2005). Human factors aspects of upset recovery training. *Proceedings of the 17<sup>th</sup> Annual European Aviation Safety Seminar*. (pp. 153-164). Warsaw, Poland.

Kochan, J. A. (2005). The application of human factors principles to upset recovery training. *Proceedings of the 50<sup>th</sup> Annual Flight Safety Foundation Corporate Aviation Safety Seminar*. Orlando, Florida.

Evans, W., Hoefl, R. M., Kochan, J. A., & Jentsch, F. (2005). Tailoring Training Through the Use of Concept Mapping: An Investigation into Improving Pilot Training. *11th International Conference on Human-Computer Interaction*. Dayton, OH: Wright State University. Las Vegas, NV: Human-Computer Interaction.

Kochan, J. A., Breiter, E. G., & Jentsch, F. (2004). Surprise and unexpectedness in flying: Database reviews and analyses. *Proceedings of the 48<sup>th</sup> Annual Meeting of the Human Factors and Ergonomics Society*. (pp. 335-339).

- Evans, W., Kochan, J. A., & Jentsch, F. (2003). Accurately assessing pilot knowledge: Bridging the gap between paper-and-pencil and oral exams. *Proceedings of the International 12<sup>th</sup> Symposium on Aviation Psychology*. (pp. 368-372). Dayton, OH: Wright State University.
- Hoeft, R. M., Kochan, J. A., & Jentsch, F. (2003). Pilot subjective perceptions of the current NOTAM system: Implications and suggestions for improvement. *Proceedings of the 12<sup>th</sup> International Symposium on Aviation Psychology*. (pp. 559-564). Dayton, OH: Wright State University.
- Jensen, R. S., Chubb, G. P., Kochan, J. A., Kirkbride, L. A. & Fisher, J. (1994). Aeronautical decision making in general aviation: New intervention strategies. In *Proceedings of the Meeting of the Western Association of Aviation Psychologists*, Dublin, Ireland: European Association of Aviation Psychologists.
- Adrion, J. (1986). The effects of experience and training on the assessment of pilot subjective workload. *Proceedings of the Human Factors Society 30th Annual Meeting* (pp. 619-623).
- Adrion, J., & Jensen, R. S. (1986). An evaluation of the pilot objective/subjective workload assessment technique (POSWAT). *Proceedings of the Flight Safety Foundation Corporate Aviation Seminar*. Washington, DC.
- Jensen, R. S., & Adrion, J. (Eds.) (1985). *Proceedings of the Third Symposium on Aviation Psychology*. Columbus, OH: OSU Aviation Psychology Laboratory.

#### **Presentations without Proceedings**

- Kochan, J. A. (2013). *Human Factors: Maintenance from a slightly different perspective*. Presented at the FAA Inspector Authorization Renewal Seminar, March 9, 2013, Lakeland, FL.
- Kochan, J. A. (2012). *Loss-of-control and human factors training*. Presented at the FAA Airman Certification: Standards, Training & Testing, 21<sup>st</sup> Century Airman Certification, September 18, 2012, Oklahoma City, OK.
- Kochan, J. A. & Ransbury, B.J. (2012). *Who Needs Upset Prevention and Recovery Training (UPRT)?* Presented at Sun 'n Fun, March 27, 2012, Lakeland, FL.
- Kochan, J. A. (2012) *Human Factors for Part 135 Air Operators: Beyond Filling the Square*. Presented at the FAA North Florida FSDO Part 135 Air Operator Safety Summit, February 23, 2012, Orlando, FL.
- Kochan, J. A. (2012). *FAA 2012 Safety Standdown*, Prepared for the FAA, January 16-17, 2012, Lakeland, FL.
- Kochan, J. A. (2011). *Human Factors Skills for General Aviation*. Presented at the United Kingdom General Aviation Safety Council Safety Evening, February 22, 2011, Wellesbourne, UK.
- Kochan, J.A. (2011). *FAA 2012 Safety Standdown*. Prepared for the FAA, February 3-4, 2011, Polk City, FL.
- Kochan, J.A. (2011). *Harmonizing Flight Training Evaluations*. Presented at the FAA North Florida FSDO Designated Pilot Examiner Annual Meeting, January 27, 2011, Lakeland, FL.
- Kochan, J. A. (2010). *Certified Flight Instructor Workshop 7; Effective Teaching and FAA/Industry Training Standards*. Presented at the FAA Tampa FSDO June 30, 2010, Tampa, FL.
- Kochan, J. A. (2010). *Certified Flight Instructor Workshop 7; Effective Teaching and FAA/Industry Training Standards*. Presented at the FAA North Florida May 26, 2010, Orlando, FL.
- Kochan, J. A. (2010). *"From 'Now-Gen' to 'Next-Gen' Pilots: Do We Need (More) New Rules?"* Presented at the World Aviation Training Conference and Tradeshow, April 27, 2010, Orlando, FL.

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- Kochan, J. A. (2010). *Human factors for air operators*. Presented at the FAA North Florida FSDO Air Operator Safety Summit (FAR 145 Repair Stations), February 24, 2010, Orlando, FL.
- Kochan, J. A. (2010). *Part 141 for next-gen pilots*. Presented at the FAA North Florida FSDO Part 141 Safety Summit, February 17, 2010, Orlando, FL.
- Kochan, J. A. (2009). *In search of the expert pilot: A research odyssey in human factors*. Presented at Drexel University's Human Cognition Enhancement Program Seminar Series, December 10, 2009, Philadelphia, PA.
- Kochan, J. A. (2006). *Motivation Choices, Mental Models, and Decision Making*. Presented at Coping.Org, October 2, 2006, Clearwater, FL.
- Kochan, J. A. (2006). *The Application of Training Science to the Loss-of-Control Problem*. Presented at World Aviation Training Conference and Tradeshow, April 4, 2006, Orlando, FL.
- Kochan, J. A. & Jentsch, F. (2005). *Deployable aircrew training: Upset recovery training*. Presented at the 13<sup>th</sup> International Symposium on Aviation Psychology, April 20, 2005, Oklahoma City: OK.
- Kochan, J. A. & Priest, J. E. (2005). *The use of in-flight simulation technology in upset recovery training*. Presented at the World Airline Training Conference and Tradeshow, April 12-14, 2005, Dallas, TX.
- Kochan, J. A. (2005). *Losing control of a perfectly good airplane*. Presented at the FAA Safety Center, Sun 'n Fun Forum, April 12, 2005, Lakeland, FL.
- Kochan, J. A., & Jentsch, F. (2005). *Training for Unexpected Events*. Presented at the ASPA/ICAO Regional Seminar on Loss-of-Control, March 8-9, 2005, Mexico City, Mexico.
- Kochan, J. A. (2005). *Combating Loss-of-Control with Upset Recovery Training*. Paper presented at the Orlando Air Carrier Safety Summit, February 9, 2005, Lakeland, FL.
- Kochan, J. A. (2004). *Aviation Accidents – Pilot Loss of Aircraft Control*. Research plan presented to New Mexico Department of Transportation Research Quality Initiative, November 30 – December 1, 2004, Albuquerque, NM.
- Kochan, J. A. & Priest, J. E. (2004). *Upset Recovery Training Program Review and Plans*. Presented to Aviation Sub-Committee Chairman John Mica, November 17, 2004, Roswell, N.M.
- Kochan, J. A. (2004). *Unexpected events: Current research*. Presented at the World Airline Training Conference and Tradeshow, May 5, 2004, Phoenix, AZ.
- Kochan, J. A. (2004). *FAA Safer Skies Program Review*. Paper presented at the Orlando Air Carrier Safety Summit, February 17, 2004, Orlando, FL.
- Kochan, J. A., Hoelt, R. M., Jentsch, F., & Bowers, C. A. (2003). *Human Factors Aspects of the Notices to Airmen (NOTAM)*. Paper presented to the Air Transport Association Human Factors Committee, May 28-29, 2003, Moffett Field, CA.
- Kochan, J. A., Hoelt, R. M., Jentsch, F., & Bowers, C. A. (2003). *Human Factors Aspects of the Notices to Airmen (NOTAM)*. Paper presented to the Air Transport Association Flight Safety Committee, March 16, 2003, Dallas, TX.
- Kochan, J. A., Hoelt, R. M., Evans, W., Rehfeld, S., & Harper, M. (2002). *Aviation Safety and Security*. Presented at the FAA Safety Center, Sun 'n Fun Forum, April 13, 2002, Lakeland, FL (FAA Wings Program and Videotape Production).
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- Kochan, J.A. (2001). *Error Management in Flight Operations*. Paper presented at the Great Lakes International Aviation Conference, January 26-28, 2001, East Lansing, MI.
- Kochan, J. A. (2001). *Errors Are Like Roaches: Error Management in Flight Operations*. Presented at the FAA Safety Center, Sun 'n Fun Forum, April 11 and 12, 2001, Lakeland, FL (FAA Wings Program and FAA Videotape Production).
- Kochan, J. A. (2001). *Aeronautical Decision Making: The Theory Behind the Practice*. Presented at the FAA Certified Flight Instructor Workshop Safety Seminar, May 13, 2001, Lakeland, FL (FAA Wings Program and FAA Videotape Production).
- Kochan, J. A. (2001). *The Practical Use and Evaluation of Human Factors Skills: The Pilot Examiners' Role*. Presented at the FAA Designated Pilot Examiner Standardization Program, January 30, 2001, Lakeland, FL.
- Kochan, J. A. (2000). *Does Older Mean Wiser?* Presented at the FAA Safety Center, Aging Airman Safety Seminar, December 2, 2000, Lakeland, FL (FAA Wings Program and FAA Videotape Production).
- Kochan, J. A. (2000). *Short Safety Tips from the CFI of the Year*. Presented at the FAA Aviation Safety Center at the Short Wing Piper Club Millennium Convention, June 28, 2003, Lakeland, FL (FAA Wings Program).
- Kochan, J. A. & Franklin, S. (2000). *The "Personal Minimums" Program*. Presented the Winter Haven Airport Wings Program, May 1, 2000, Winter Haven, FL (FAA Wings Program).
- Kochan, J. A. & Breiter, E. G. (2000). *Metamorphosis: Aeronautical Decision Making from General Aviation to the Airlines*. Presented at the FAA Safety Center, Sun 'n Fun Forum, April 13, 2000, Lakeland, FL (FAA Wings Program and FAA Videotape Production).
- Kochan, J. A. & Franklin, S. (2000). *Human Factors and the Glider Pilot*. Presented at the FAA Safety Center, Soaring Seminar, February 28, 2000, Lakeland, FL (FAA Wings Program and FAA Videotape Production).
- Kochan, J. A. & Kochan, D. M. (1999). *The Anatomy of an Accident*. Presented at the FAA Safety Center, Seaplane Safety Seminar, September 23, 1999, Lakeland, FL (FAA Wings Program and FAA Videotape Production).
- Kochan, J.A. (1999). *What Can Air Carrier Pilots Learn from General Aviation?* Presented at the Florida Aero Club Wings Program, August 3, 1999, Bartow, FL (FAA Wings Program).
- Kochan, J. A. (1999). *Single Pilot Crew Resource Management*. Presented at the FAA Safety Center, Sun 'n Fun Forum, April 17, 1999, Lakeland, FL (FAA Wings Program and FAA Videotape Production).

### **Technical Reports**

- Kochan, J. A. (2006). *A report on research sponsored by New Mexico Department of Transportation Research Bureau in cooperation with the US Department of Transportation, Federal Aviation Administration*. Report NM03MMT-04.
- Kochan, J. A. (2004). *Upset recovery training effectiveness progress report #1*. Federal Aviation Administration Contract No. DTFA01-02-C-00088.
- Kochan, J. A., Jentsch, F., & Breiter, E. G. (2004). *Dealing with the unexpected: Cognitive flexibility, adaptive expertise, and metacognitive skills*. (Technical report to the Office of the Chief Scientific and Technical Advisor for Human Factors at the Federal Aviation Administration). Orlando, FL: University of Central Florida.

- Kochan, J. A. & Jentsch, F. (2003). *Surprise and unexpectedness in flying: Database reviews and analyses*. (Technical report submitted to the Office of the Chief Scientific and Technical Advisor for Human Factors at the Federal Aviation Administration). Orlando, FL: University of Central Florida.
- Jentsch, F., Hoefl, R., Kochan, J. A., & Bowers, C. (2003). *A Human Factors investigation of Notices to Airmen (NOTAMs)*. Presented at the "100 years of Aviation" ADF Symposium, October 3, 2003, Orlando, FL.
- Kochan, J. A., Hoefl, R., Jentsch, F., & Bowers, C. (2003). *Human Factors Analysis of Notices to Airmen System (NOTAMs)*. Presented at the Air Transport Association Safety Council, July 10, 2003, Washington, DC.
- Kochan, J. A., Hoefl, R., Jentsch, F., & Bowers, C. (2003). *Human Factors Analysis of Notices to Airmen System (NOTAMs)*. Presented at the Air Transport Association Human Factors Committee Meeting, May 28, 2003, Moffett Field, San Jose, CA.
- Kochan, J. A., Hoefl, R., Jentsch, F., & Bowers, C. (2003). *Human Factors Analysis of Notices to Airmen System (NOTAMs)*. Presented at the Air Transport Association Safety Committee, March 8, 2003, Dallas, TX.
- Hoefl, R. M., Kochan, J. A., & Jentsch, F. (2002). *Human Factors Aspects of Notices to Airmen (NOTAMs)* (Interim Technical Report for the FAA Federal Aviation Administration Voluntary Safety Program Branch). Orlando, FL: University of Central Florida.
- Kochan, J. A., Jensen, R. S., Chubb, G. P., & Hunter, D. R. (1997). *A New Approach o Aeronautical Decision-Making: The Expertise Method*. (DOT/FAA/AM-97-6). Washington, DC: Federal Aviation Administration, Office of Aviation Medicine.
- Rodgers, D. A., Jensen, R. S., & Kochan, J. A. (1993). *Personality Factors Contributing to Pilot Accidents And Pilot Errors*. (DTFA01-93-0049). Washington, DC: Federal Aviation Administration.
- Jensen, R. S., & Adrion, J. (1988). *Aeronautical Decision Making for Commercial Pilots*. Report DOT/FAA/PM-86/42. Washington, DC: Federal Aviation Administration.
- Jensen, R. S., & Adrion, J. (1987). *Aeronautical Decision Making for Instrument Pilots*. Report DOT/FAA/PM-86/43. Washington, DC: Federal Aviation Administration.
- Jensen, R. S., Adrion, J., & Maresh, J. (1987). *Pilot Judgment Skills Test Battery*. Report to Clinical Sciences Division, U.S. Air Force School of Aerospace Medicine, Brooks Air Force Base, TX.
- Jensen, R. S., Adrion, J., & Maresh, J. (1987). *Pilot Judgment Skills Test Battery*. Columbus, OH: Aviation Research Associates/U.S. Air Force Final Report SBIR Contract No. F33615-86-C-4519.
- Lawton, R. L., Benner, L., Clarke, R., Jensen, R. S., Adrion, J., & Maresh, J. (1987). *The DECIDE Approach to Training Pilots and Pilot Decision Making*. Frederick, MD: AOPA Air Safety Foundation.
- Jensen, R. S., Maresh, J. L., Adrion, J., & Mallery, C. J. (1986). *The Development of Workload Measurement Devices and Techniques for Aircraft Cockpits*. Washington, D.C.: Federal Aviation Administration (AFSL-86-05).
- Jensen, R. S., Adrion, J., & Maresh, J. (1986). *A Preliminary Investigation of the Application of the Decide Model to Aeronautical Decision Making*. Final Report AOPA 86-3. Frederick, MD: AOPA.

### **Poster Sessions**

- Hoefl, R., Kochan, J. A., & Jentsch, F. (2004). *Improving how pilots receive critical flight safety information*. University of Central Florida Graduate Research Forum- Poster Presentations, March 22, 2004, Orlando, FL.

### **Training Materials**

Kochan, J. A., Stowell, R., Casey, S. (2012). FAASTeam 2012 Safety Standdown video. *Don't be surprised: Be prepared*. Prepared for the FAA National Resource Center, Lakeland, FL.

Kochan, J. A. (2010). FAASTeam *Certified Flight Instructor Workshop 7; Effective Teaching and FAA/Industry Training Standards*. Prepared for the FAA National Resource Center, Lakeland, FL.

Kochan, J. A., Breiter, E. G. & Hilscher, M. (2005), Operator's Guide to Human Factors in Aviation, Pilot judgment and expertise. [http://www.skybrary.aero/index.php/Pilot\\_judgment\\_and\\_expertise\\_\(OGHFA\\_BN\)](http://www.skybrary.aero/index.php/Pilot_judgment_and_expertise_(OGHFA_BN)) Flight Safety Foundation.

2003 – Present

FAA Safer Skies Initiative: Aeronautical Decision Making Interactive DVD for dissemination to FAA Safety Program Managers, Additional Safer Skies DVD's (Weather, Runway Safety, and Loss-of-Control)

1996 – 2006

Airborne Express Crew Resource Management Program Course and Instructor Manuals since 1996 – updated yearly for use in CRM courses for approximately 850 pilots and dispatchers in Part 121 U.S. Air Carrier operation

1983 – 1997

American Medical Association Department of Practice Management (Human Factors) Training Manuals

1985 – 1988

FAA Pilot Judgment Training Manuals (Commercial and Instrument) produced for use in the field from:

Jensen, R. S., & Adrion, J. (1988). *Aeronautical Decision Making for Commercial Pilots*. Report DOT/FAA/PM-86/42. Washington, DC: Federal Aviation Administration.

Jensen, R. S., & Adrion, J. (1987). *Aeronautical Decision Making For Instrument Pilots*. Report DOT/FAA/PM-86/43. Washington, DC: Federal Aviation Administration.

### **Memberships**

Royal Aeronautical Society - Fellow  
Aerospace Medical Association – Associate Fellow  
American Psychological Association  
Association of Aviation Psychologists  
Human Factors and Ergonomics Society  
National Aeronautic Association  
Aircraft Maintenance Professionals Society  
American Institute of Aeronautics and Astronautics  
Aircraft Owners and Pilots Association  
Experimental Aircraft Association  
Ninety-Nines Inc.  
Seaplane Pilots Association  
Soaring Society of America  
Women in Aviation

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